

**Crystal Data:** Tetragonal. *Point Group:*  $4/m\ 2/m\ 2/m$ . As portions of prismatic tetragonal dipyramidal crystals, intergrown with béhierite, to 2 cm.

**Physical Properties:** Hardness =  $\sim 8$  D(meas.) = n.d. D(calc.) = 6.548

**Optical Properties:** Transparent. *Color:* Colorless. *Streak:* White. *Luster:* Vitreous. *Optical Class:* Uniaxial (+).  $n = 2.30(5)$ , birefringent.  $\omega = \text{n.d.}$   $\epsilon = \text{n.d.}$

**Cell Data:** *Space Group:*  $I4_1/amd$ .  $a = 6.219(5)$   $c = 5.487(5)$   $Z = 4$

**X-ray Powder Pattern:** Antsongombato, Madagascar; calculated pattern, very close to béhierite.

4.115 (100), 3.110 (84), 2.328 (49), 1.598 (42), 2.481 (36), 1.939 (29), 1.646 (25)

**Chemistry:**

	(1)	(2)
B <sub>2</sub> O <sub>3</sub>	[16.60]	16.44
Nb <sub>2</sub> O <sub>5</sub>	33.08	31.38
Ta <sub>2</sub> O <sub>5</sub>	50.37	52.18
Total	[100.05]	100.00

(1) Antsongombato, Madagascar; by electron microprobe, average of 16 analyses, B<sub>2</sub>O<sub>3</sub> calculated from stoichiometry; corresponds to (Nb<sub>0.52</sub>Ta<sub>0.48</sub>)<sub>Σ=1.00</sub>BO<sub>4</sub>. (2) (Nb, Ta)BO<sub>4</sub> with Nb:Ta = 1:1.

**Occurrence:** Very rare in miarolitic cavities in a pegmatite dike.

**Association:** Béhierite, rhodizite, elbaite–liddicoatite, spodumene, pollucite, danburite, apatite, quartz, feldspar.

**Distribution:** From Antsongombato, south of Betafo, Madagascar.

**Name:** To honor Professor Guisepe Schiavinato (1915–1996), Italian mineralogist, who supported the advancement of mineralogy in Italy.

**Type Material:** City Museum of Natural History, Milan, Italy, M31137.

**References:** (1) Demartin, F., V. Diella, C.M. Gramaccioli, and F. Pezzotta (2001) Schiavinatoite, (Nb, Tb)BO<sub>4</sub>, the Nb analogue of behierite. *Eur. J. Mineral.*, 13, 159–165.